

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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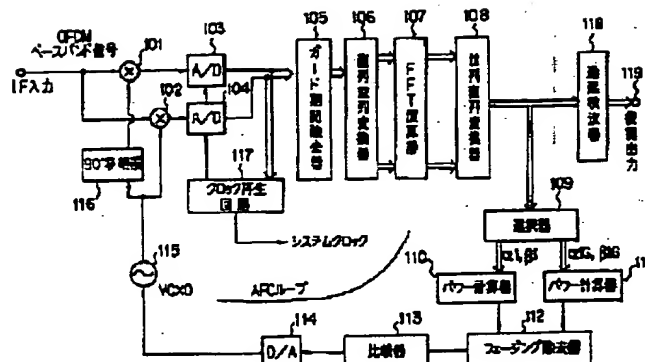
APPLICATION DATE : 27-09-93  
APPLICATION NUMBER : 05238657

APPLICANT : TOSHIBA CORP;

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TITLE : OFDM SIGNAL DEMODULATOR



ABSTRACT : PURPOSE: To provide the OFDM signal demodulator having an inexpensive OFDM reception AFC device.

CONSTITUTION: A signal of the OFDM (orthogonal frequency multiplexing) modulation system to be sent is orthogonally detected by multipliers 101, 102, which provide respectively I and Q axis components, and they are digitized and demodulated by a serial parallel converter 106, an FFT computing element 107, a parallel serial converter 108, and a delay detector 118 via a guard period eliminating device 105. A path comprising a selector 109, power calculation devices 110, 111, a fading elimination device 112, a comparator 113, a D/A converter 114 and a VCXO 115 forms an AFC loop.

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